

<b>Notice of Allowability</b>	Application No.	Applicant(s)	
	09/935,395	BATRA ET AL.	
	Examiner	Art Unit	
	Michael Pyzocha	2137	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 09/14/2006.
2. ☒ The allowed claim(s) is/are 1,2,4-15,17-28 and 30-39.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |   |
|---|---|
| <ol style="list-style-type: none"> <li>1. <input type="checkbox"/> Notice of References Cited (PTO-892)</li> <li>2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br/>Paper No./Mail Date _____</li> <li>4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br/>of Biological Material</li> </ol> | <ol style="list-style-type: none"> <li>5. <input type="checkbox"/> Notice of Informal Patent Application</li> <li>6. <input type="checkbox"/> Interview Summary (PTO-413),<br/>Paper No./Mail Date _____</li> <li>7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment</li> <li>8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance</li> <li>9. <input type="checkbox"/> Other _____</li> </ol> |
|---|---|

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**DETAILED ACTION**

1. Claims 1, 2, 4-15, 17-28 and 30-39 are pending.
2. After Final Amendment filed 09/16/2006 has been received and considered. However, it has not been entered because the amendments made in the response are incorporated in the Examiner's Amendment below.

**EXAMINER'S AMENDMENT**

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mari Stewart on 09/19/2006. The application has been amended as follows:

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**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently amended) A computer implemented method in a data processing system for automatically configuring IP security tunnels, said computer implemented method comprising the steps of:

retrieving a remote computer system identifier;

determining whether a local-remote pair corresponding to the identifier is found, wherein the local-remote pair is used in selecting a security policy, and wherein an error is reported indicating that a user needs to configure a tunnel with the remote computer system if the local-remote pair is not found; [[and]]

defining a configuration of an IP security tunnel between the data processing system and the remote computer system utilizing a security policy specification format, wherein said security policy specification format is established as a document type definition (DTD) file capable of being utilized by a plurality of different operating systems and a plurality of different machine types; and

including a plurality of different elements in said DTD file, each of said plurality of different elements being utilized to configure an IP security tunnel.

2. (Previously presented) The method according to claim 1, wherein said DTD file defines a collection of elements, and further comprising:

generating an XML file utilizing the collection of elements defined in said DTD file, wherein said XML file defines a configuration of a particular IP security tunnel, and wherein said XML file is processed to automatically configure said IP security tunnel defined by the XML file.

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3. (Canceled)

4. (Currently amended) The method according to claim 1 [[3]], further comprising the steps of:

generating an XML file utilizing a plurality of said plurality of different elements included within said DTD file; and

processing said XML file to automatically configure an IP security tunnel.

5. (Original) The method according to claim 1, further comprising the step of including a root element in said security policy specification format.

6. (Original) The method according to claim 1, further comprising the step of establishing a protection element in said security policy specification format, said protection element including a listing of IKE transforms.

7. (Original) The method according to claim 1, further comprising the step of establishing a transform element in said security policy specification format.

8. (Previously presented) The method according to claim 1, further comprising the step of establishing a group element in said security policy specification format, wherein said group element contains multiple identification elements.

9. (Original) The method according to claim 1, further comprising the step of establishing an identification element in said security policy specification format.

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10. (Original) The method according to claim 1, further comprising the step of establishing a tunnel element in said security policy specification format.

11. (Original) The method according to claim 1, further comprising the step of establishing a root element, a protection element, a transform element, a group element, an identification element, a tunnel element, a local/remote identify element, an ID type element, an ID definition element, a pre-shared key element, an IPsec proposal element, an IPsec ESP protocol element, an IPsec authentication header element, and an IPsec protection element in said security policy specification format.

12. (Original) The method according to claim 1, further comprising the step of automatically configuring an IP security tunnel utilizing said security policy specification format.

13. (Original) The method according to claim 1, further comprising the step of comparing a first IP security tunnel to a second IP security tunnel utilizing a first security policy specification format that is associated with said first IP security tunnel and a second security policy specification format that is associated with a second IP security tunnel.

14. (Currently amended) A computer program product comprising:  
a computer readable recordable medium having computer usable program code for defining a configuration of IP security tunnels in a data processing system, comprising:

computer usable program code for retrieving a remote computer system identifier;

computer usable program code for determining whether a local-remote pair corresponding to the identifier is found, wherein the local-remote pair is used in selecting a security policy, and wherein

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an error is reported indicating that a user needs to configure a tunnel with the remote computer system if the local-remote pair is not found;

computer usable program code for automatically configuring an IP security tunnel between the data processing system and the remote computer system utilizing a security policy specification format wherein said security policy specification format is established as a document type definition (DTD) file capable of being utilized by a plurality of different operating systems and a plurality of different machine types; and

computer usable program code for including a plurality of different elements in said DTD file, each of said plurality of different elements being utilized to configure an IP security tunnel.

15. (Previously presented) The product according to claim 14, wherein said DTD file defines a collection of elements, and further comprising:

generating an XML file utilizing the collection of elements defined in said DTD file, wherein said XML file defines a configuration of a particular IP security tunnel, and wherein said XML file is processed to automatically configure said IP security tunnel defined by the XML file.

16. (Canceled)

17. (Currently amended) The product according to claim 14 [[16]], further comprising:

computer usable program code for generating an XML file utilizing a plurality of said plurality of different elements included within said DTD file; and

computer usable program code for processing said XML file to automatically configure an IP security tunnel.

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18. (Previously presented) The product according to claim 14, further comprising computer usable program code for including a root element in said security policy specification format.

19. (Previously presented) The product according to claim 14, further comprising computer usable program code for establishing a protection element in said security policy specification format, said protection element including a listing of IKE transforms.

20. (Previously presented) The product according to claim 14, further comprising computer usable program code for establishing a transform element in said security policy specification format.

21. (Previously presented) The product according to claim 14, further comprising computer usable program code for establishing a group element in said security policy specification format, wherein said group element contains multiple identification elements.

22. (Previously presented) The product according to claim 14, further comprising computer usable program code for establishing an identification element in said security policy specification format.

23. (Previously presented) The product according to claim 14, further comprising computer usable program code for establishing a tunnel element in said security policy specification format.

24. (Previously presented) The product according to claim 14, further comprising computer usable program code for establishing a root element, a protection element, a transform element, a group element, an identification element, a tunnel element, a local/remote identify element, an ID type element, an ID definition element, a pre-shared key element, an IPsec proposal element, an IPsec ESP protocol

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element, an IPsec authentication header element, and an IPsec protection element in said security policy specification format.

25. (Previously presented) The product according to claim 14, further comprising computer usable program code for automatically configuring an IP security tunnel utilizing said security policy specification format.

26. (Previously presented) The product according to claim 14, further comprising computer usable program code for comparing a first IP security tunnel to a second IP security tunnel utilizing a first security policy specification format that is associated with said first IP security tunnel and a second security policy specification format that is associated with a second IP security tunnel.

27. (Currently amended) A data processing system for automatically configuring IP security tunnels, comprising:

a computer;

a computer readable medium containing computer readable instructions, wherein the computer executes the computer readable instructions to retrieve a remote computer system identifier; determine whether a local-remote pair corresponding to the identifier is found, wherein the local-remote pair is used in selecting a security policy, and wherein an error is reported indicating that a user needs to configure a tunnel with the remote computer system if the local-remote pair is not found; [[and]] automatically configure an IP security tunnel between the data processing system and the remote computer system utilizing a security policy specification format, wherein said security policy specification format is established as a document type definition (DTD) file capable of being utilized by a plurality of different operating systems and a plurality of different machine types; and include a plurality of different elements in said



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DTD file, each of said plurality of different elements being utilized to configure an IP security tunnel.

28. (Previously presented) The system according to claim 27, wherein said DTD file defines a collection of elements, and further comprising:

generating an XML file utilizing the collection plurality of different elements defined in said DTD file, wherein said XML file defines a configuration of a particular IP security tunnel, and wherein said XML file is processed to automatically configure said IP security tunnel defined by the XML file.

29. (Canceled)

30. (Currently amended) The system according to claim 27 [[29]], further comprising:

an XML file being generated utilizing a plurality of said plurality of different elements included within said DTD file; and  
said system for processing said XML file to automatically configure an IP security tunnel.

31. (Original) The system according to claim 27, further comprising a root element being included in said security policy specification format.

32. (Original) The system according to claim 27, further comprising a protection element being included in said security policy specification format, said protection element including a listing of IKE transforms.

33. (Original) The system according to claim 27, further comprising a transform element being included in said security policy specification format.

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34. (Previously presented) The system according to claim 27, further comprising a group element being included in said security policy specification format, wherein said group element contains multiple identification elements.

35. (Original) The system according to claim 27, further comprising an identification element being included in said security policy specification format.

36. (Original) The system according to claim 27, further comprising a tunnel element being included in said security policy specification format.

37. (Original) The system according to claim 27, further comprising a root element, a protection element, a transform element, a group element, an identification element, a tunnel element, a local/remote identify element, an ID type element, an ID definition element, a pre-shared key element, an IPsec proposal element, an IPsec ESP protocol element, an IPsec authentication header element, and an IPsec protection element being included in said security policy specification format.

38. (Original) The system according to claim 27, further comprising said system for automatically configuring an IP security tunnel utilizing said security policy specification format.

39. (Original) The system according to claim 27, further comprising said system for comparing a first IP security tunnel to a second IP security tunnel utilizing a first security policy specification format that is associated with said first IP security tunnel and a second security policy specification format that is associated with a second IP security tunnel.

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***Allowable Subject Matter***

4. The following is an examiner's statement of reasons for allowance: The above amendments incorporate the subject matter of claim 3 which was previously objected to as being allowable if placed in independent form. Furthermore, the addition of "recordable" to the computer readable medium of claim 14 makes this medium tangible because the specification defines recordable type media as, "a floppy disk, a hard drive, a RAM, CD-ROMs, DVD-ROMs" distinguishing this media from transmission media which relates to non-tangible and therefore non-statutory subject matter therefore making all claims statutory with regard to 35 USC 101.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Pyzocha whose telephone number is (571) 272-3875. The examiner

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can normally be reached on 7:00am - 4:30pm first Fridays of the bi-week off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Emmanuel Moise can be reached on (571) 272-3865. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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